

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
11 August 2005 (11.08.2005)

PCT

(10) International Publication Number
WO 2005/073500 A1

(51) International Patent Classification⁷: **E21B 21/06**,
41/00

(21) International Application Number:
PCT/NO2004/000289

(22) International Filing Date:
29 September 2004 (29.09.2004)

(25) Filing Language: Norwegian

(26) Publication Language: English

(30) Priority Data:
2004 0412 29 January 2004 (29.01.2004) NO
2004 0861 26 February 2004 (26.02.2004) NO

(71) Applicant (for all designated States except US): **ING. PER
GJERDRUM AS** [NO/NO]; P.O.Box 154, N-1378 Nesbru
(NO).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **EIDE, Anders**
[NO/NO]; Trollheggeveien 1, N-3152 Tolvsrød (NO).

(74) Agent: **PROTECTOR INTELLECTUAL PROPERTY
CONSULTANTS AS**; P.O.Box 5074 Majorstuen, N-0301
Oslo (NO).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SI, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

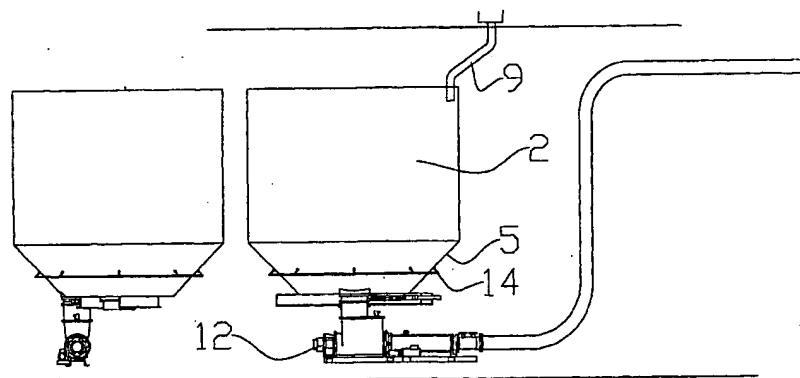
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted
a patent (Rule 4.17(ii)) for the following designations AE,
AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,
CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE,
EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,

[Continued on next page]

(54) Title: **SYSTEM TANK AND OUTPUT UNIT FOR TRANSPORTING UNTREATED DRILL CUTTINGS**



(57) Abstract: System for transport of untreated drill cuttings, comprising a tank (2). The tank (2) is arranged below the deck of a ship (1) and has an output unit (10) at the bottom (6), to feed the drill cuttings towards an output opening (8). A pump (21) is provided below the bottom of the tank (2) to feed the drill cuttings through an unloading line (13). The unloading line (13) has a substantially uniform cross section and is shaped so that the velocity of the flow close to the inner wall is substantially equal in the same cross section. The tank (2) has an upper circular cylindrical part (3) and a lower frustoconical part (4) and a substantially flat bottom (6). In the flat bottom (6) is an output opening (8), which extends from the side wall (5) of the frustoconical part (4) to an inner dome or cone (11).



JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.